

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Qinghong W. Wang

Serial No.: Unassigned

Filed: Herewith

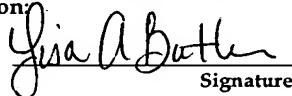
For: Spacecraft Spin Axis Reorientation Method

Attorney Docket No.: 03-0168 (BOE 0458 PA)

I hereby certify that this correspondence is being deposited with the United States Postal Service via "Express Mail" under Label No. EL 977983203 US in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

November 21, 2003  
Date of Deposit

Lisa Butler

  
Signature

**DISCLOSURE STATEMENT  
UNDER 37 C.F.R. § 1.56**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

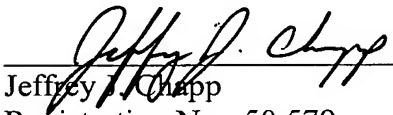
In compliance with 37 C.F.R. § 1.56, the art listed and identified on the attached PTO form is being submitted herewith for consideration by the Examiner. A copy of each of the listed references is included herewith.

It is Applicants' opinion that the claims presently on file patentably distinguish the present invention from each of these references. The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art.

No fee is believed to be due because this statement and enclosures are being filed before the first Office Action on the merits mailed by the PTO. The Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 50-0476.

Respectfully submitted,

**ARTZ & ARTZ, P.C.**

  
\_\_\_\_\_  
Jeffrey J. Chapp  
Registration No. 50,579  
28333 Telegraph Road, Suite 250  
Southfield, MI 48034  
(248) 223-9500

Date: November 21, 2003

Substitute for Form 1449B/PTO  <b>INFORMATION DISCLOSURE  STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	To Be Determined
				Filing Date	November 21, 2003
				First Named Inventor	Qinghong W. Wang
				Group Art Unit	To Be Determined
				Examiner Name	To Be Determined
Sheet	1	of	1	Attorney Docket Number	03-0168 (BOE 0458 PA)

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1.	B. WIE, H.WEISS, AND A. ARAPOSTATHIS: "Quaternion Feedback Regulator for Spacecraft Eigenaxis Rotations", Journal of Guidance, Vol. 12, No 3, May-June 1989, p. 375 - 380.	
	2.	H.WEISS: "Quaternion-Based Rate/Attitude Tracking System with Application to Gimbal Attitude Control", Journal of Guidance, Vol. 16, No. 4, July-August 1993, p.609-616.	

Examiner Signature		Date Considered	
--------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.